

$f'_2(1525)$ $I^G(J^{PC}) = 0^+(2^{++})$ **$f'_2(1525)$ MASS**VALUE (MeV) DOCUMENT ID**1525±5 OUR ESTIMATE** This is only an educated guess; the error given is larger than the error on the average of the published values.**PRODUCED BY PION BEAM**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1521±13		TIKHOMIROV 03	SPEC	$40.0 \pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
1547 ⁺¹⁰ ₋₂	1	LONGACRE 86	MPS	$22 \pi^- p \rightarrow K_S^0 K_S^0 n$
1496 ⁺⁹ ₋₈	2	CHABAUD 81	ASPK	$6 \pi^- p \rightarrow K^+ K^- n$
1497 ⁺⁸ ₋₉		CHABAUD 81	ASPK	$18.4 \pi^- p \rightarrow K^+ K^- n$
1492±29		GORLICH 80	ASPK	$17 \pi^- p$ polarized $\rightarrow K^+ K^- n$
1502±25	3	CORDEN 79	OMEG	$12\text{--}15 \pi^- p \rightarrow \pi^+ \pi^- n$
1480	14	CRENNELL 66	HBC	$6.0 \pi^- p \rightarrow K_S^0 K_S^0 n$

PRODUCED BY K^\pm BEAM

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
1523.3± 1.1 OUR AVERAGE Includes data from the datablock that follows this one.				
Error includes scale factor of 1.1.				
1526.8± 4.3		ASTON 88D	LASS	$11 K^- p \rightarrow K_S^0 K_S^0 \Lambda$
1504 ± 12		BOLONKIN 86	SPEC	$40 K^- p \rightarrow K_S^0 K_S^0 Y$
1529 ± 3		ARMSTRONG 83B	OMEG	$18.5 K^- p \rightarrow K^- K^+ \Lambda$
1521 ± 6	650	AGUILAR...	HBC	$4.2 K^- p \rightarrow \Lambda K^+ K^-$
1521 ± 3	572	ALHARRAN 81	HBC	$8.25 K^- p \rightarrow \Lambda K \bar{K}$
1522 ± 6	123	BARREIRO 77	HBC	$4.15 K^- p \rightarrow \Lambda K_S^0 K_S^0$
1528 ± 7	166	EVANGELIS...	77	OMEG $10 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1527 ± 3	120	BRANDENB...	76C	ASPK $13 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1519 ± 7	100	AGUILAR...	72B	HBC $3.9, 4.6 K^- p \rightarrow K \bar{K} (\Lambda, \Sigma)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1514 ± 8	61	BINON 07	GAMS	$32.5 K^- p \rightarrow \eta \eta (\Lambda / \Sigma^0)$
1513 ± 10	4	BARKOV 99	SPEC	$40 K^- p \rightarrow K_S^0 K_S^0 y$

PRODUCED IN $e^+ e^-$ ANNIHILATION AND PARTICLE DECAYS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
The data in this block is included in the average printed for a previous datablock.				

1521.9^{+ 1.8}_{-1.5} OUR AVERAGE Error includes scale factor of 1.1.

1522.2± 2.8 ^{+ 5.3} _{-2.0}		AAIJ	13AN LHCb	$\bar{B}_s^0 \rightarrow J/\psi K^+ K^-$
1513 ± 5 + 4 ₋₁₀	5.5k	5 ABLIKIM	13N BES3	$e^+ e^- \rightarrow J/\psi \rightarrow \gamma \eta \eta$

$1525.3^{+1.2+3.7}_{-1.4-2.1}$		UEHARA	13	BELL	$\gamma\gamma \rightarrow K_S^0 K_S^0$
1521 ± 5		ABLIKIM	05	BES2	$J/\psi \rightarrow \phi K^+ K^-$
$1518 \pm 1 \pm 3$		ABE	04	BELL	$10.6 e^+ e^- \rightarrow e^+ e^- K^+ K^-$
$1519 \pm 2 \pm 15_5^{+15}_{-5}$		BAI	03G	BES	$J/\psi \rightarrow \gamma K\bar{K}$
1523 ± 6	331	⁶ ACCIARRI	01H	L3	$91, 183-209 e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
$1535 \pm 5 \pm 4$		ABREU	96C	DLPH	$Z^0 \rightarrow K^+ K^- + X$
$1516 \pm 5 \pm 9_{-15}^{+9}$		BAI	96C	BES	$J/\psi \rightarrow \gamma K^+ K^-$
1531.6 ± 10.0		AUGUSTIN	88	DM2	$J/\psi \rightarrow \gamma K^+ K^-$
1515 ± 5		⁷ FALVARD	88	DM2	$J/\psi \rightarrow \phi K^+ K^-$
$1525 \pm 10 \pm 10$		BALTRUSAIT..87	MRK3		$J/\psi \rightarrow \gamma K^+ K^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$1532 \pm 3 \pm 6$	644	^{8,9} DOBBS	15		$J/\psi \rightarrow \gamma K^+ K^-$
$1557 \pm 9 \pm 3$	113	^{8,9} DOBBS	15		$\psi(2S) \rightarrow \gamma K^+ K^-$
1526 ± 7	29	¹⁰ LEES	14H	BABR	$e^+ e^- \rightarrow K_S^0 K_S^0 K^+ K^- \gamma$
1523 ± 5	870	¹¹ SCHEGELSKY	06A	RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$
1496 ± 2		¹² FALVARD	88	DM2	$J/\psi \rightarrow \phi K^+ K^-$

PRODUCED IN $\bar{p}p$ ANNIHILATION

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •			
1530 ± 12	¹³ ANISOVICH	09	RVUE $0.0 \bar{p}p, \pi N$
1513 ± 4	AMSLER	06	CBAR $0.9 \bar{p}p \rightarrow K^+ K^- \pi^0$
1508 ± 9	¹⁴ AMSLER	02	CBAR $0.9 \bar{p}p \rightarrow \pi^0 \eta\eta, \pi^0 \pi^0 \pi^0$

CENTRAL PRODUCTION

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1515 ± 15	BARBERIS	99	OMEG $450 pp \rightarrow p_S p_f K^+ K^-$

PRODUCED IN $e p$ COLLISIONS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
1512 $\pm 3^{+1.4}_{-0.5}$		¹⁵ CHEKANOV	08	ZEUS $e p \rightarrow K_S^0 K_S^0 X$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1537 $\pm 9_{-8}^{+9}$	84	¹⁶ CHEKANOV	04	ZEUS $e p \rightarrow K_S^0 K_S^0 X$

¹ From a partial-wave analysis of data using a K-matrix formalism with 5 poles.

² CHABAUD 81 is a reanalysis of PAWLICKI 77 data.

³ From an amplitude analysis where the $f'_2(1525)$ width and elasticity are in complete disagreement with the values obtained from $K\bar{K}$ channel, making the solution dubious.

⁴ Systematic errors not estimated.

⁵ From partial wave analysis including all possible combinations of 0^{++} , 2^{++} , and 4^{++} resonances.

⁶ Supersedes ACCIARRI 95J.

⁷ From an analysis ignoring interference with $f_0(1710)$.

⁸ Using CLEO-c data but not authored by the CLEO Collaboration.

- ⁹ From a fit to a Breit-Wigner line shape with fixed $\Gamma = 73$ MeV.
¹⁰ From a fit to a Breit-Wigner line shape plus a second-order polynomial function. Systematic errors not evaluated.
¹¹ From analysis of L3 data at 91 and 183–209 GeV.
¹² From an analysis including interference with $f_0(1710)$.
¹³ 4-poles, 5-channel K matrix fit.
¹⁴ T-matrix pole.
¹⁵ In the SU(3) based model with a specific interference pattern of the $f_2(1270)$, $a_2^0(1320)$, and $f'_2(1525)$ mesons incoherently added to the $f_0(1710)$ and non-resonant background.
¹⁶ Systematic errors not estimated.
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$f'_2(1525)$ WIDTH

VALUE (MeV)	DOCUMENT ID	COMMENT
73^{+6}_{-5} OUR FIT		
76 ± 10	PDG	90 For fitting

PRODUCED BY PION BEAM

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •			
102 \pm 42	TIKHOMIROV 03	SPEC	$40.0 \pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
108 \pm 5	17 LONGACRE 86	MPS	$22 \pi^- p \rightarrow K_S^0 K_S^0 n$
69 \pm 22	18 CHABAUD 81	ASPK	$6 \pi^- p \rightarrow K^+ K^- n$
137 \pm 23	CHABAUD 81	ASPK	$18.4 \pi^- p \rightarrow K^+ K^- n$
150 \pm 83	GORLICH 80	ASPK	$17 \pi^- p$ polarized $\rightarrow K^+ K^- n$
165 \pm 42	19 CORDEN 79	OMEG	$12\text{--}15 \pi^- p \rightarrow \pi^+ \pi^- n$
92 \pm 39	20 POLYCHRO... 79	STRC	$7 \pi^- p \rightarrow n K_S^0 K_S^0$

PRODUCED BY K^\pm BEAM

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
$81.4^{+2.2}_{-1.9}$ OUR AVERAGE				Includes data from the datablock that follows this one.
90 \pm 12	ASTON	88D	LASS	$11 K^- p \rightarrow K_S^0 K_S^0 \Lambda$
73 \pm 18	BOLONKIN	86	SPEC	$40 K^- p \rightarrow K_S^0 K_S^0 Y$
83 \pm 15	ARMSTRONG	83B	OMEG	$18.5 K^- p \rightarrow K^- K^+ \Lambda$
85 \pm 16	650	AGUILAR-...	81B	HBC $4.2 K^- p \rightarrow \Lambda K^+ K^-$
80 \pm 14	572	ALHARRAN	81	HBC $8.25 K^- p \rightarrow \Lambda K \bar{K}$
72 \pm 25	166	EVANGELIS...	77	OMEG $10 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
69 \pm 22	100	AGUILAR-...	72B	HBC $3.9, 4.6 K^- p \rightarrow K \bar{K} (\Lambda, \Sigma)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
92 \pm 25	61	BINON	07	GAMS $32.5 K^- p \rightarrow \eta \eta (\Lambda / \Sigma^0)$
75 \pm 20		21 BARKOV	99	SPEC $40 K^- p \rightarrow K_S^0 K_S^0 y$
62 \pm 19	123	BARREIRO	77	HBC $4.15 K^- p \rightarrow \Lambda K_S^0 K_S^0$
61 \pm 8	120	BRANDENB...	76C	ASPK $13 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$

PRODUCED IN $e^+ e^-$ ANNIHILATION AND PARTICLE DECAYS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
The data in this block is included in the average printed for a previous datablock.				

81.4 \pm 2.4 OUR AVERAGE

84 \pm 6	\pm 10	AAIJ	13AN LHCb	$\bar{B}_s^0 \rightarrow J/\psi K^+ K^-$
75 \pm 12	\pm 16	5.5k 22 ABLIKIM	13N BES3	$e^+ e^- \rightarrow J/\psi \rightarrow \gamma\eta\eta$
82.9 \pm 2.1	\pm 3.3	UEHARA	13 BELL	$\gamma\gamma \rightarrow K_S^0 K_S^0$
77 \pm 15		ABLIKIM	05 BES2	$J/\psi \rightarrow \phi K^+ K^-$
82 \pm 2	\pm 3	ABE	04 BELL	$10.6 e^+ e^- \rightarrow e^+ e^- K^+ K^-$
75 \pm 4	\pm 15	BAI	03G BES	$J/\psi \rightarrow \gamma K\bar{K}$
100 \pm 15	331	23 ACCIARRI	01H L3	91, 183–209 $e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
60 \pm 20	\pm 19	ABREU	96C DLPH	$Z^0 \rightarrow K^+ K^- + X$
60 \pm 23	\pm 13	BAI	96C BES	$J/\psi \rightarrow \gamma K^+ K^-$
103 \pm 30		AUGUSTIN	88 DM2	$J/\psi \rightarrow \gamma K^+ K^-$
62 \pm 10		24 FALVARD	88 DM2	$J/\psi \rightarrow \phi K^+ K^-$
85 \pm 35		BALTRUSAIT..87	MRK3	$J/\psi \rightarrow \gamma K^+ K^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
37 \pm 12	29	25 LEES	14H BABR	$e^+ e^- \rightarrow K_S^0 K_S^0 K^+ K^- \gamma$
104 \pm 10	870	26 SCHEGELSKY	06A RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$
100 \pm 3		27 FALVARD	88 DM2	$J/\psi \rightarrow \phi K^+ K^-$

PRODUCED IN $\bar{p}p$ ANNIHILATION

VALUE (MeV)		DOCUMENT ID	TECN	COMMENT
79\pm 8		28 AMSLER	02 CBAR	$0.9 \bar{p}p \rightarrow \pi^0 \eta\eta, \pi^0 \pi^0 \pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
128 \pm 20	29	ANISOVICH	09 RVUE	0.0 $\bar{p}p, \pi N$
76 \pm 6		AMSLER	06 CBAR	$0.9 \bar{p}p \rightarrow K^+ K^- \pi^0$

CENTRAL PRODUCTION

VALUE (MeV)		DOCUMENT ID	TECN	COMMENT
70\pm25		BARBERIS	99 OMEG	$450 pp \rightarrow p_s p_f K^+ K^-$

PRODUCED IN $e p$ COLLISIONS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
83\pm 9$^{+5}_{-4}$		30 CHEKANOV	08 ZEUS	$e p \rightarrow K_S^0 K_S^0 X$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
50 $^{+34}_{-22}$	84	31 CHEKANOV	04 ZEUS	$e p \rightarrow K_S^0 K_S^0 X$

- ¹⁷ From a partial-wave analysis of data using a K-matrix formalism with 5 poles.
¹⁸ CHABAUD 81 is a reanalysis of PAWLICKI 77 data.
¹⁹ From an amplitude analysis where the $f'_2(1525)$ width and elasticity are in complete disagreement with the values obtained from $K\bar{K}$ channel, making the solution dubious.
²⁰ From a fit to the D with $f_2(1270)$ - $f'_2(1525)$ interference. Mass fixed at 1516 MeV.
²¹ Systematic errors not estimated.
²² From partial wave analysis including all possible combinations of 0^{++} , 2^{++} , and 4^{++} resonances.
²³ Supersedes ACCIARRI 95J.
²⁴ From an analysis ignoring interference with $f_0(1710)$.
²⁵ From a fit to a Breit-Wigner line shape plus a second-order polynomial function. Systematic errors not evaluated.
²⁶ From analysis of L3 data at 91 and 183–209 GeV.
²⁷ From an analysis including interference with $f_0(1710)$.
²⁸ T-matrix pole.
²⁹ 4-poles, 5-channel K matrix fit.
³⁰ In the SU(3) based model with a specific interference pattern of the $f_2(1270)$, $a_2^0(1320)$, and $f'_2(1525)$ mesons incoherently added to the $f_0(1710)$ and non-resonant background.
³¹ Systematic errors not estimated.
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$f'_2(1525)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $K\bar{K}$	(88.7 \pm 2.2) %
Γ_2 $\eta\eta$	(10.4 \pm 2.2) %
Γ_3 $\pi\pi$	(8.2 \pm 1.5) $\times 10^{-3}$
Γ_4 $K\bar{K}^*(892) + \text{c.c.}$	
Γ_5 $\pi K\bar{K}$	
Γ_6 $\pi\pi\eta$	
Γ_7 $\pi^+\pi^+\pi^-\pi^-$	
Γ_8 $\gamma\gamma$	(1.10 \pm 0.14) $\times 10^{-6}$

CONSTRAINED FIT INFORMATION

An overall fit to the total width, 2 partial widths, a combination of partial widths obtained from integrated cross sections, and 3 branching ratios uses 17 measurements and one constraint to determine 5 parameters. The overall fit has a $\chi^2 = 14.3$ for 13 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta p_i \delta p_j \rangle / (\delta p_i \delta p_j)$, in percent, from the fit to parameters p_i , including the branching fractions, $x_i \equiv \Gamma_i/\Gamma_{\text{total}}$. The fit constrains the x_i whose labels appear in this array to sum to one.

x_2	-100			
x_3	-6	-1		
x_8	-6	6	1	
Γ	-23	23	-1	-56
	x_1	x_2	x_3	x_8

Mode	Rate (MeV)
$\Gamma_1 K\bar{K}$	65 $^{+5}_{-4}$
$\Gamma_2 \eta\eta$	7.6 ± 1.8
$\Gamma_3 \pi\pi$	0.60 ± 0.12
$\Gamma_8 \gamma\gamma$	(8.1 ± 0.9) $\times 10^{-5}$

 $f'_2(1525)$ PARTIAL WIDTHS **$\Gamma(K\bar{K})$**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT	Γ_1
65^{+5}_{-4} OUR FIT				
63^{+6}_{-5}	32 LONGACRE 86 MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$		

 $\Gamma(\eta\eta)$

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT	Γ_2
7.6 ± 1.8 OUR FIT					
• • • We do not use the following data for averages, fits, limits, etc. • • •					
5.0 ± 0.8	870	33 SCHEGELSKY 06A RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$		
24 $^{+3}_{-1}$		32 LONGACRE 86 MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$		

 $\Gamma(\pi\pi)$

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT	Γ_3
0.60 ± 0.12 OUR FIT					
$1.4^{+1.0}_{-0.5}$		32 LONGACRE 86 MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$		
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.2 $^{+1.0}_{-0.2}$	870	33 SCHEGELSKY 06A RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$		

 $\Gamma(\gamma\gamma)$

VALUE (keV)	EVTS	DOCUMENT ID	TECN	COMMENT	Γ_8
0.081 ± 0.009 OUR FIT					
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.13 ± 0.03	870	33 SCHEGELSKY 06A RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$		
32 From a partial-wave analysis of data using a K-matrix formalism with 5 poles.					
33 From analysis of L3 data at 91 and 183–209 GeV, using $\Gamma(f'_2(1525) \rightarrow K\bar{K}) = 68$ MeV and SU(3) relations.					

$f'_2(1525) \Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

$\Gamma(K\bar{K}) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$	$\Gamma_1\Gamma_8/\Gamma$			
<u>VALUE (keV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.072 ± 0.007 OUR FIT				
0.072 ± 0.007 OUR AVERAGE				
0.048 $^{+0.067}_{-0.008}$ $^{+0.108}_{-0.012}$	UEHARA	13	BELL	$\gamma\gamma \rightarrow K_S^0 K_S^0$
0.0564 ± 0.0048 ± 0.0116	ABE	04	BELL	$10.6 e^+ e^- \rightarrow e^+ e^- K^+ K^-$
0.076 ± 0.006 ± 0.011	331 ³⁴ ACCIARRI	01H L3		$e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
0.067 ± 0.008 ± 0.015	35 ALBRECHT	90G ARG		$e^+ e^- \rightarrow e^+ e^- K^+ K^-$
0.11 $^{+0.03}_{-0.02}$ ± 0.02	BEHREND	89C CELL		$e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
0.10 $^{+0.04}_{-0.03}$ $^{+0.03}_{-0.02}$	BERGER	88 PLUT		$e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
0.12 ± 0.07 ± 0.04	35 AIHARA	86B TPC		$e^+ e^- \rightarrow e^+ e^- K^+ K^-$
0.11 ± 0.02 ± 0.04	35 ALTHOFF	83 TASS		$e^+ e^- \rightarrow e^+ e^- K\bar{K}$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0314 ± 0.0050 ± 0.0077	36 ALBRECHT	90G ARG		$e^+ e^- \rightarrow e^+ e^- K^+ K^-$
34 Supersedes ACCIARRI 95J. From analysis of L3 data at 91 and 183–209 GeV,				
35 Using an incoherent background.				
36 Using a coherent background.				

 $f'_2(1525) \text{ BRANCHING RATIOS}$

$\Gamma(\eta\eta)/\Gamma_{\text{total}}$	Γ_2/Γ		
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •			
seen	UEHARA	10A BELL	$10.6 e^+ e^- \rightarrow e^+ e^- \eta\eta$
0.10 ± 0.03	37 PROKOSHKIN 91	GAM4	$300 \pi^- p \rightarrow \pi^- p\eta\eta$
37 Combining results of GAM4 with those of WA76 on $K\bar{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \rightarrow \gamma\eta\eta$.			

$\Gamma(\eta\eta)/\Gamma(K\bar{K})$	Γ_2/Γ_1				
<u>VALUE</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.118 ± 0.028 OUR FIT					
0.115 ± 0.028 OUR AVERAGE					
0.119 ± 0.015 ± 0.036	61	38 BINON	07	GAMS	$32.5 K^- p \rightarrow \eta\eta(\Lambda/\Sigma^0)$
0.11 ± 0.04		39 PROKOSHKIN 91	GAM4		$300 \pi^- p \rightarrow \pi^- p\eta\eta$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
< 0.14	90	BARBERIS	00E		$450 pp \rightarrow p_f \eta\eta p_s$
< 0.50		BARNES	67	HBC	$4.6, 5.0 K^- p$

38 Using the compilation of the cross sections for $f'_2(1525)$ production in $K^- p$ collisions from ASTON 88D.

39 Combining results of GAM4 with those of WA76 on $K\bar{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \rightarrow \gamma\eta\eta$.

$\Gamma(\pi\pi)/\Gamma_{\text{total}}$	Γ_3/Γ				
<u>VALUE</u>	<u>CL%</u>				
0.0082±0.0016 OUR FIT					
0.0075±0.0016 OUR AVERAGE					
0.007 ± 0.002	COSTA	80	OMEG	$10 \pi^- p \rightarrow K^+ K^- n$	
0.027 +0.071 -0.013	40 GORLICH	80	ASPK	$17,18 \pi^- p$	
0.0075±0.0025	40,41 MARTIN	79	RVUE		
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.06	95	AGUILAR-...	81B	HBC	$4.2 K^- p \rightarrow \Lambda K^+ K^-$
0.19 ± 0.03		CORDEN	79	OMEG	$12-15 \pi^- p \rightarrow \pi^+ \pi^- n$
<0.045	95	BARREIRO	77	HBC	$4.15 K^- p \rightarrow \Lambda K_S^0 K_S^0$
0.012 ± 0.004	40 PAWICKI	77	SPEC	$6 \pi N \rightarrow K^+ K^- N$	
<0.063	90	BRANDENB...	76C	ASPK	$13 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
<0.0086	40 BEUSCH	75B	OSPK	$8.9 \pi^- p \rightarrow K^0 \bar{K}^0 n$	
40 Assuming that the $f'_2(1525)$ is produced by an one-pion exchange production mechanism.					
41 MARTIN 79 uses the PAWICKI 77 data with different input value of the $f'_2(1525) \rightarrow K\bar{K}$ branching ratio.					
$\Gamma(\pi\pi)/\Gamma(K\bar{K})$	Γ_3/Γ_1				
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
0.0092±0.0018 OUR FIT					
0.075 ± 0.035	AUGUSTIN	87	DM2	$J/\psi \rightarrow \gamma \pi^+ \pi^-$	
$[\Gamma(K\bar{K}^*(892)+\text{c.c.}) + \Gamma(\pi K\bar{K})]/\Gamma(K\bar{K})$	$(\Gamma_4+\Gamma_5)/\Gamma_1$				
<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.35	95	AGUILAR-...	72B	HBC	$3.9,4.6 K^- p$
<0.4	67	AMMAR	67	HBC	
$\Gamma(\pi\pi\eta)/\Gamma(K\bar{K})$	Γ_6/Γ_1				
<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.41	95	AGUILAR-...	72B	HBC	$3.9,4.6 K^- p$
<0.3	67	AMMAR	67	HBC	
$\Gamma(\pi^+ \pi^+ \pi^- \pi^-)/\Gamma(K\bar{K})$	Γ_7/Γ_1				
<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.32	95	AGUILAR-...	72B	HBC	$3.9,4.6 K^- p$

$f'_2(1525)$ REFERENCES

DOBBS	15	PR D91 052006	S. Dobbs <i>et al.</i>	(NWES)
LEES	14H	PR D89 092002	J.P. Lees <i>et al.</i>	(BABAR Collab.)
AAIJ	13AN	PR D87 072004	R. Aaij <i>et al.</i>	(LHCb Collab.)
ABLIKIM	13N	PR D87 092009	Ablikim M. <i>et al.</i>	(BES III Collab.)
UEHARA	13	PTEP 2013 123C01	S. Uehara <i>et al.</i>	(BELLE Collab.)
UEHARA	10A	PR D82 114031	S. Uehara <i>et al.</i>	(BELLE Collab.)
ANISOVICH	09	IJMP A24 2481	V.V. Anisovich, A.V. Sarantsev	
CHEKANOV	08	PRL 101 112003	S. Chekanov <i>et al.</i>	(ZEUS Collab.)
BINON	07	PAN 70 1713	F. Binon <i>et al.</i>	(GAMS Collab.)
		Translated from YAF 70 1758.		
AMSLER	06	PL B639 165	C. Amsler <i>et al.</i>	(CBAR Collab.)
SCHEGELSKY	06A	EPJ A27 207	V.A. Schegelsky <i>et al.</i>	
ABLIKIM	05	PL B607 243	M. Ablikim <i>et al.</i>	(BES Collab.)
ABE	04	EPJ C32 323	K. Abe <i>et al.</i>	(BELLE Collab.)
CHEKANOV	04	PL B578 33	S. Chekanov <i>et al.</i>	(ZEUS Collab.)
BAI	03G	PR D68 052003	J.Z. Bai <i>et al.</i>	(BES Collab.)
TIKHOMIROV	03	PAN 66 828	G.D. Tikhomirov <i>et al.</i>	
		Translated from YAF 66 860.		
AMSLER	02	EPJ C23 29	C. Amsler <i>et al.</i>	
ACCIARRI	01H	PL B501 173	M. Acciarri <i>et al.</i>	(L3 Collab.)
BARBERIS	00E	PL B479 59	D. Barberis <i>et al.</i>	(WA 102 Collab.)
BARBERIS	99	PL B453 305	D. Barberis <i>et al.</i>	(Omega Expt.)
BARKOV	99	JETPL 70 248	B.P. Barkov <i>et al.</i>	
		Translated from ZETFP 70 242.		
ABREU	96C	PL B379 309	P. Abreu <i>et al.</i>	(DELPHI Collab.)
BAI	96C	PRL 77 3959	J.Z. Bai <i>et al.</i>	(BES Collab.)
ACCIARRI	95J	PL B363 118	M. Acciarri <i>et al.</i>	(L3 Collab.)
PROKOSHKIN	91	SPD 36 155	Y.D. Prokoshkin	(GAM2, GAM4 Collab.)
		Translated from DANS 316 900.		
ALBRECHT	90G	ZPHY C48 183	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
PDG	90	PL B239 1	J.J. Hernandez <i>et al.</i>	(IFIC, BOST, CIT+)
BEHREND	89C	ZPHY C43 91	H.J. Behrend <i>et al.</i>	(CELLO Collab.)
ASTON	88D	NP B301 525	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
AUGUSTIN	88	PRL 60 2238	J.E. Augustin <i>et al.</i>	(DM2 Collab.)
BERGER	88	ZPHY C37 329	C. Berger <i>et al.</i>	(PLUTO Collab.)
FALVARD	88	PR D38 2706	A. Falvard <i>et al.</i>	(CLER, FRAS, LAZO+)
AUGUSTIN	87	ZPHY C36 369	J.E. Augustin <i>et al.</i>	(LAZO, CLER, FRAS+)
BALTRUSAIT...	87	PR D35 2077	R.M. Baltrusaitis <i>et al.</i>	(Mark III Collab.)
AIHARA	86B	PRL 57 404	H. Aihara <i>et al.</i>	(TPC-2 γ Collab.)
BOLONKIN	86	SJNP 43 776	B.V. Bolonkin <i>et al.</i>	(ITEP) JP
		Translated from YAF 43 1211.		
LONGACRE	86	PL B177 223	R.S. Longacre <i>et al.</i>	(BNL, BRAN, CUNY+)
ALTHOFF	83	PL 121B 216	M. Althoff <i>et al.</i>	(TASSO Collab.)
ARMSTRONG	83B	NP B224 193	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+)
AGUILAR-...	81B	ZPHY C8 313	M. Aguilar-Benitez <i>et al.</i>	(CERN, CDEF+)
ALHARRAN	81	NP B191 26	S. Al-Harran <i>et al.</i>	(BIRM, CERN, GLAS+)
CHABAUD	81	APP B12 575	V. Chabaud <i>et al.</i>	(CERN, CRAC, MPIM)
COSTA	80	NP B175 402	G. Costa <i>et al.</i>	(BARI, BONN, CERN, GLAS+)
GORLICH	80	NP B174 16	L. Gorlich <i>et al.</i>	(CRAC, MPIM, CERN+)
CORDEN	79	NP B157 250	M.J. Corden <i>et al.</i>	(BIRM, RHEL, TELA+) JP
MARTIN	79	NP B158 520	A.D. Martin, E.N. Ozmutlu	(DURH)
POLYCHRO...	79	PR D19 1317	V.A. Polychronakos <i>et al.</i>	(NDAM, ANL)
BARREIRO	77	NP B121 237	F. Barreiro <i>et al.</i>	(CERN, AMST, NIJM+)
EVANGELIS...	77	NP B127 384	C. Evangelista <i>et al.</i>	(BARI, BONN, CERN+)
PAWICKI	77	PR D15 3196	A.J. Pawlicki <i>et al.</i>	(ANL) IJP
BRANDENB...	76C	NP B104 413	G.W. Brandenburg <i>et al.</i>	(SLAC)
BEUSCH	75B	PL 60B 101	W. Beusch <i>et al.</i>	(CERN, ETH)
AGUILAR-...	72B	PR D6 29	M. Aguilar-Benitez <i>et al.</i>	(BNL)
AMMAR	67	PRL 19 1071	R. Ammar <i>et al.</i>	(NWES, ANL) JP
BARNES	67	PRL 19 964	V.E. Barnes <i>et al.</i>	(BNL, SYRA) IJPC
CRENNELL	66	PRL 16 1025	D.J. Crennell <i>et al.</i>	(BNL) I